



GURURAJ ENGINEERS
SINCE 1981

Expertise in industrial **Automation**

PLC | SERVO CONTROLLERS | SCADA SYSTEMS | A.C./D.C. DRIVES | CONTROL PANELS



OMRON



CROUZET



www.gururajengineers.com



Our Company Profile :

Gururaj Engineers is based in the Makarpura Industrial Estate at Vadodara, the key industrial area of Gujarat. The company has developed expertise in the line of automation and development of custom-built industrial equipments and instruments. Gururaj has been providing high quality equipments to a widespread base of clients for about 30 years. It manufactures a wide range of products and specializes in Thyristor DC drives; Torque Motor Controllers, Vibrator Feeder Controllers, Timers, Pulse Jet Timers, SSRs, Ratio Cards, ZSRs, Solid State Heating Panels, PLC Based Systems, Custom Built Equipments, other Machine Dedicated Controls, etc. Gururaj Engineers is also the authorized Solution Provider and Channel Partner of GE Intelligent Platforms, OMRON, CROUZET, DELTA.



GE-IP delivers automation hardware and software designed to help users reduce costs and increase efficiency. It provides a diverse product range that includes PLCs, SCADA, Servo / Stepper Motion control, Operator interfaces / HMIs / MMIs and Industrial computers. Gururaj Engineers is proud to present the entire range of GE-IP automation products and solutions. Gururaj Engineers is committed to provide top quality products and services to its customers at competitive prices. It continuously strives to add more products to its wide range of products and assure customer satisfaction.

Mr Mohan R Tilwalli, the founder Chairman of this Company, is the driving force behind the growth and success of the company since its inception. His vision and deep knowledge helped him build an unparalleled expertise in this industry. Today Mr. Tilwalli, has been kind enough to share his wealth of experience for mentoring the young and dynamic team at Gururaj Engineers.

Mr Anant Tilwalli, with his unparalleled business acumen, has taken the executive leadership as the CEO since 2009. Fueled by an undeterred intention to drive the economic growth of all associated with Gururaj Engineers, Mr Anant has spearheaded various initiatives. He has provided strategic vision and brought operational excellence. He has put in stupendous efforts to build internal organizational efficiency to ensure fairness to all business associates and employees.

Our Vision :

1. The latest technological trends thereby creating value for clients, customers and employees
2. A continued investment in Research & Development
3. Building and nurturing engineering talent
4. Developing a culture that fosters teamwork and enhances leadership abilities
5. Forming strategic alliances in order to move up a diversified value chain within the energy industry
6. The highest standards of corporate conduct and ethics
7. Ensuring the highest levels of customer satisfaction for every customer across geography and scale

Our Mission :

1. Providing value to our customer
2. Earning a reasonable return on our delivered value
3. Improving the standard of living and quality of life within the circle of our influence

PRODUCT BASKET



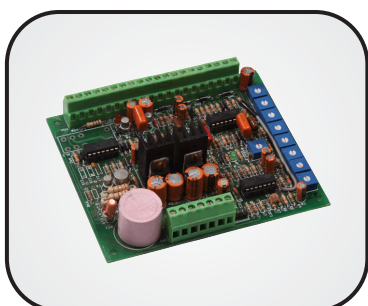
TORQUE MOTOR CONTROLLER



VIBRATER FEED CONTROLLER



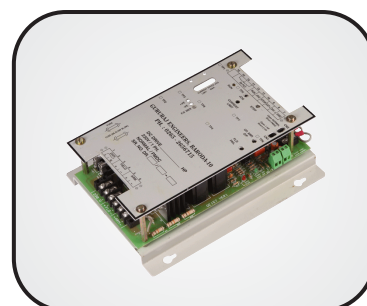
PULSE JET



BATTERY CHARGER



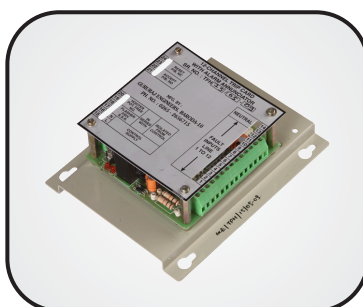
SOLENOID CARD



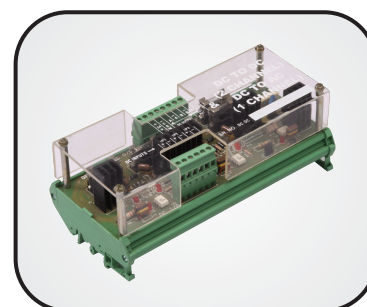
DC DRIVE



MOTOR CONTROLLERS



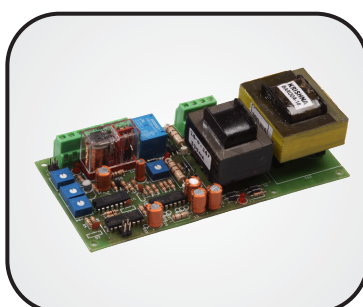
TRIP CARD



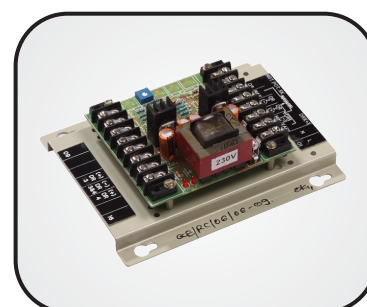
DC TO DC CONVERTER



ANALOG TIMERS



OVERLOAD UNITS



RATIO CARD



CONTROL PANEL



FEEDER PILLAR PANEL



SS PANEL



HOT STANDBY PLC PANEL



INSTRUMENT CONTROL PANEL



POWER DISTRIBUTION BOARD



SERVO PANEL



DESK PANEL



PLC PANEL



PAC SYSTEM Rx3i CONTROL



PACSystems Rx3i Features :

- ▶ High-speed processor and patented technology for faster throughput without information bottlenecks
- ▶ Dual backplane bus support per module slot :
 - High- speed, PCL-based for fast through put of new advanced I/O
 - Serial backplane for easy migration of existing Series-90-30 I/O
- ▶ Multiple CPU offerings meeting various performance criteria up to and including an Intel 1GHz CPU for advanced programming and performance with 64Mbytes memory
- ▶ Memory for Ladder logic documentation and machine documentation (Word, Excel, PDF, CAD and other files) in the controller to reduce downtime and improve troubleshooting
- ▶ Open communications support including Ethernet, GENIUS*, Profibus, HART, DeviceNet and serial
- ▶ Supports high density discrete I/O, Universal analog (TC, RTD, Strain Gauge, Voltage and Current configurable per channel), isolated analog, high- density analog, high-speed counter, and motion modules
- ▶ Expanded I/O offering with extended features for faster processing, advanced diagnostics and a variety of configurable interrupts
- ▶ Hot insertion for both new and migrated modules

VERSAMAX* I/O AND CONTROL



Offering Big PLC Power in a Small Package.
An Abundance of Useful I/O Options.
The Perfect Match for Today's Open System
The Ultimate in Cost-effective Control and I/O.
A Design that Maximizes Ease of Use.
Easy Trouble Shooting and Machine Setup Using a Handheld PDA.

PAC 8000 PROCESS I/O



GE Fanuc Intelligent Platforms' rug-ged, reliable 8000 Process I/O, with its optional intrinsic safety, provides a Cost- effective and space-saving solution that Eliminates the need for external intrinsic safety barriers. We can help you address your most demanding Process control applications-all while helping you gain a sustainable advantage for future growth.

OMRON 1S-SERIES

- ▶ Power range from 100 W to 3 kW - 100/200/400V
- ▶ 23 bit high resolution encoder
- ▶ 350% momentary maximum torque (200 V, 750 W max.)
- ▶ Battery-free absolute multi-turn encoder
- ▶ Improved loop control for low overshoot and quick settling time
- ▶ Safety function built-in:
 - Hardwired Safe Torque Off:
 - EN ISO 13849-1 (Cat.3 PLe), EN61508 (SIL3), EN62061 (SIL3), EN61800-5-2 (STO)
 - Safety over EtherCAT (FSOE):
 - EN ISO 13849-1 (Cat.3 PLd), EN61508 (SIL2), EN62061 (SIL2), EN61800-5-2 (STO)



Simplified Machine Design And Maintenance

- ▶ No battery, no maintenance
- ▶ No need for homing sequence improving machine uptime
- ▶ 23 bit high resolution encoder as standard
- ▶ Absolute multi-turn encoder design without mechanics: 16 bits, 65536 turns
- ▶ Compact and smaller motor size

OMRON NX-SERIES

- ▶ Fastest cycle time: 2 ms
- ▶ Functions: Logic sequence and Motion control
- ▶ Up to 8 axes (4 synchronized axes)
- ▶ Built-in I/O: 40 or 24 I/O points
- ▶ Up to 8 local NX I/O units
- ▶ Built-in EtherCAT and EtherNet/IP ports
- ▶ Up to 16 EtherCAT slaves
- ▶ Up to 2 option boards can be connected to add serial communications or analog I/O functionality



MACHINE SAFETY SOLUTION

SAFETY LIGHT CURTAINS FSG-RE ECONOMY LIGHT CURTAIN

For basic ON/OFF detection functionality with the highest level of protection to keep operator safe and productive.



SAFETY MONITORING RELAYS G9SE SERIES

For simple safety control that scales up in small increments choose slim profile G9SE with front panel terminals for quick access and reduced



SAFETY DOOR SWITCHES SERIES D4NS SERIES

Prevent unsafe operator access with compact plastic bodied safety door switches.

An optional metal operation head increases life span.



SWITCHES D4SL-N GUARD LOCK SAFETY DOOR SWITCH

Prevent works from being trapped inside hazardous areas of equipment with this switch and slide key, lock able in the open position with trapped keys that can't be closed



SCANNERS OS32C SAFETY LASER SCANNER

if access to the safety hazard covers a large area use non-contact sensing to prevent equipment start-up or shut down when an intrusion occurs. Built-in Ethernet/IP allows remote device monitoring of status and information.



EtherNet/IP

NON-CONTACT SWITCHES D40 SERIES

when you want to monitor the status of multiple access doors use series connected non-contact switches.



PROGRAMMABLE SAFETY CONTROLLER G9SP SERIES

when you want to monitor the status of multiple access doors use series connected non-contact switches.



OMRON VISION SENSORS / MACHINE VISION SYSTEMS

Smart Camera FQ2

Vision Sensors/Machine Vision Systems analyze images to perform appearance inspections, character inspections, positioning, and defect inspections.

Advanced inspection in a compact housing. Expanded performance and functionality. Camera, Communications, Software Tools, and Much More.



FH Series

Omron has packed image sensing technology for inspection and measurement necessary for automation into compact devices.

The FH Series includes software for inspection and measurement in addition to cameras that can capture high-sensitivity and high-resolution images.

This vision system, substituted for the human eye, provides high-speed and high-precision inspection and measurement without complex programming and device combination.



Temperature Controller E5CC

large white PV display that's easier to read. Easy to use, from model selection to setup and operation.





a complete range of I/O capacities, functions, and performance.

Handles more applications. e5cc-b is our value design product which increases the value of your control panel.



Millenium 3 logic controllers



Type	Part number	Power supply	Inputs	Outputs	
With display					
	CD12	88970041	24 V \cdots	8 digital (of which 4 are analogue)	4 x 8 A relays
		88970042	24 V \cdots	8 digital (of which 4 are analogue)	4 solid state 0.5 A (of which 1 is PWM)
		88970043	100 \rightarrow 240 V \sim	8 digital	4 x 8 A relays
		88970044	24 V \sim	8 digital	4 x 8 A relays
		88970045	12 V \cdots	8 digital (of which 4 are analogue)	4 x 8 A relays
	CD20	88970051	24 V \cdots	12 digital (of which 6 are analogue)	8 x 8 A relays
		88970052	24 V \cdots	12 digital (of which 6 are analogue)	8 solid state 0.5 A (of which 4 are PWM)
		88970053	100 \rightarrow 240 V \sim	12 digital	8 x 8 A relays
		88970054	24 V \sim	12 digital	8 x 8 A relays
		88970055	12 V \cdots	12 digital (of which 6 are analogue)	8 x 8 A relays
Without display					
	CB12	88970021	24 V \cdots	8 digital (of which 4 are analogue)	4 x 8 A relays
		88970023	100 \rightarrow 240 V \sim	8 digital	4 x 8 A relays
		88970024	24 V \sim	8 digital	4 x 8 A relays
		88970840	12 V \cdots	8 digital (of which 4 are analogue)	4 solid state 0.5 A (of which 1 is PWM)
	CB20	88970031	24 V \cdots	12 digital (of which 6 are analogue)	8 x 8 A relays
		88970033	100 \rightarrow 240 V \sim	12 digital	8 x 8 A relays
		88970034	24 V \sim	12 digital	8 x 8 A relays



■ Ergonomic display



■ Optimum memory capacity

Millenium 3 logic controllers operate with the following software:



■ M3 SOFT

Multilingual programming software (CD-ROM) including a library of specific functions.
Part no.: 88970111

■ M3 ALARM

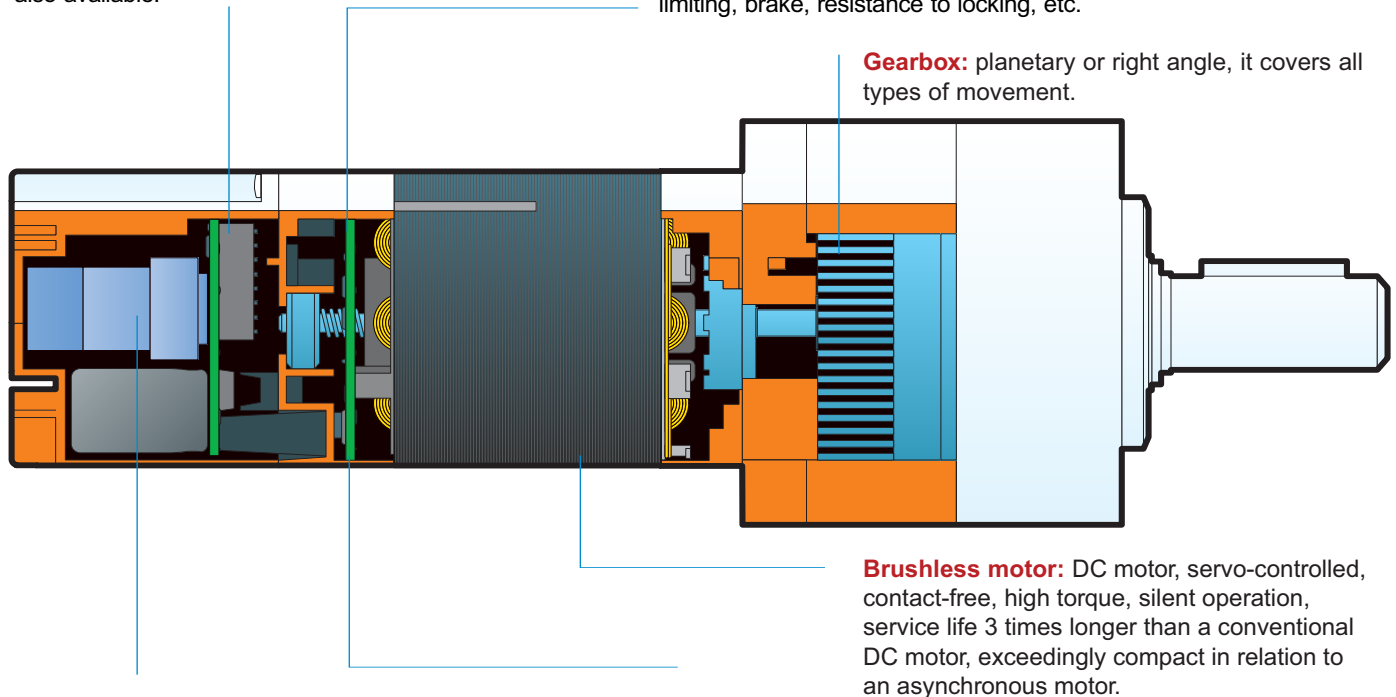
Alarm management software (CD-ROM)
Part no.: 88970116
This software is used alongside the M3MOD communication interface (part no.: 88970117).

ADVANCED BLDC MOTOR

Logic controller: a true PLC complete with 4 inputs and 4 outputs and pre-programmed functions to simplify and reduce debugging operations. Analogue and digital inputs are also available.

Variable speed drive: a compact unit integrated in the motor control electronics, with functions optimised by design in comparison to more traditional solutions: variable speed, torque limiting, brake, resistance to locking, etc.

Gearbox: planetary or right angle, it covers all types of movement.



EMC filter: this neutralises electronic interference both inside and outside the motor.

Encoder: 2-channel, provides all necessary information regarding motor position and direction of rotation.

Previously



100W asynchronous motor



Encoder



PLC



Variable speed drive

Now



Monobloc 80W Motomate

BRUSHLESS DC GEARED MOTORS

→ 30 Watts with Ø 62 planetary gearbox

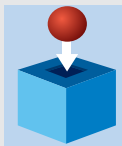
- Concentric output shaft,
- Ideal for high reduction ratios,
- Ideal for high torque applications,
- High efficiency,
- Reversible.



Specifications

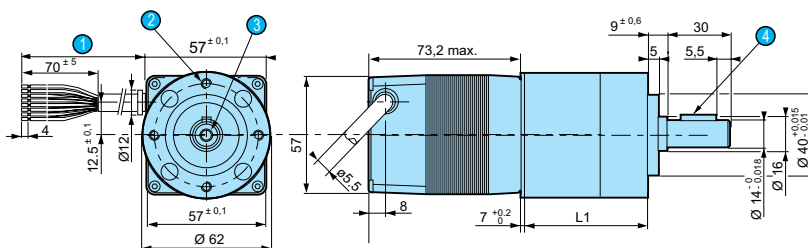
Ratios (i)	Output speed (rpm)	Available torque (N.m)	1 stage	2 stages	3 stages
7	316	0,8	80 149 604		
46	48	5		80 149 605	
308	7	30			80 149 606
General characteristics					
Motor			80 140	80 140	80 140
Speed control			0-10 V and PWM	0-10 V and PWM	0-10 V and PWM
Axial load dynamic (N)			50	70	120
Radial load dynamic (N)			240	360	520
Efficiency (%)			90	80	70
Casing temperature rise at 25°C			35	35	35
Weight (g)			1 600	2 000	2 400

Product adaptations



- 2 quadrant speed regulation,
- Motors with hall effect sensors only,
- Adaptations on electronics,
- Special cable lengths,
- Special connectors fitted to the cable.

Dimensions



- B Cable length 400 ± 10 mm
- C 4 holes M5 depth 10 at 90° on Ø52
- D Fixation hole M5 depth 12.5
- E Key A5 x 5 x 18

- L1 1 stage : 43.7 mm max.
- L1 2 stages : 59.7 mm max.
- L1 3 stages : 75.2 mm max.

User information

Respect the limits and precautions of use written in the 30W brushless motor section

BRUSHLESS DC GEARED MOTORS

→ 80 Watts with Ø 81 planetary gearbox - 0-10 V control

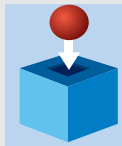
- Concentric output shaft,
- Ideal for high reduction ratios,
- Ideal for high torque applications,
- High efficiency,
- Reversible.



Specifications

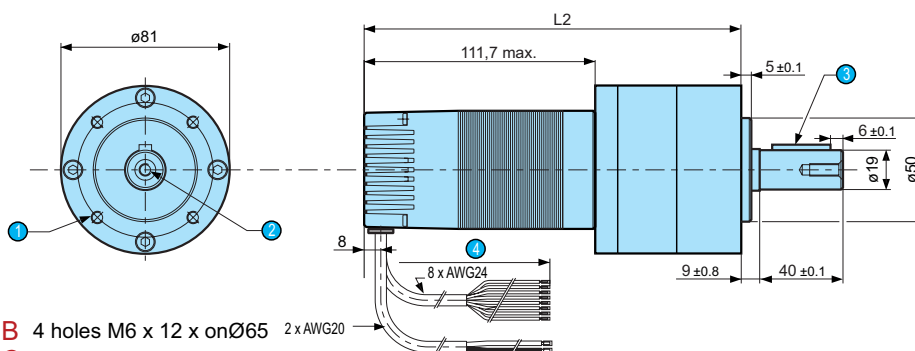
Ratios (i)	Output speed (rpm)	Available torque (N.m)	1 stage	2 stages	3 stages
5	650	1	80 189 704		
27	120	4,5		80 189 705	
139	23	20			80 189 706
General characteristics					
Motor			80 180	80 180	80 180
Speed control			0-10 V	0-10 V	0-10 V
Axial load dynamic (N)			80	120	200
Radial load dynamic (N)			200	300	500
Efficiency (%)			80	70	60
Casing temperature rise at 25°C			35	35	35
Weight (g)			3 200	3 900	4 600

Product adaptations



- 2 quadrant speed regulation,
- Motors with hall effect sensors only,
- Adaptations on electronics,
- Special cable lengths,
- Special connectors fitted to the cable.

Dimensions



- B 4 holes M6 x 12 x on $\varnothing 65$ 2 x AWG20
- C Fixing hole M6 x 16
- D Cable length 500 ± 15 mm
- E Key A6 x 6 x 28 according to DIN6885

L2 1 stage : 182 mm max.
 L2 2 stages : 203.9 mm max.
 L2 3 stages : 226 mm max.

User information

Respect the limits and precautions of use written in the 80W brushless motor section.

Intelligent Multifunction Micro Drive VFD-E/EL

New Generation Micro-type and Multifunction AC Motor Drives



- ▶ Optional expansion modules for more flexible applications (PG cards for VFD-E series, highspeed fieldbus, braking modules, I/O card for VFD-E series)
- ▶ Fans with modular design for easy maintenance and replacement
- ▶ Built-in EMI filter for 230V single-phase and 460V models to minimize the electromagnetic interference effectively
- ▶ Built-in RFI Switch for noise suppression (all models)
- ▶ Built-in 500 steps PLC programming capacity (VFD-E Series)
- ▶ Innovative thermal design allows side-by-side installation and DIN RAIL mounting
- ▶ Built-in PID feedback control. The VFD-EL series also provides special functions for constant pressure pump
- ▶ Built-in RS-485, compatible with Modbus communication (baud rate up to 38400 bps)

DELTA VFD-M AC DRIVES

- ▶ Output frequency 0.1~400 Hz
- ▶ Adjustable V/f curve and vector control
- ▶ Carrier frequency up to 15 kHz
- ▶ Auto torque boost & slip compensation
- ▶ Built-in PID feedback control
- ▶ Built-in MODBUS communication, baud rate up to 38400 bps
- ▶ 0 speed holding function
- ▶ Built-in sleep / revival function
- ▶ Support communication module (DN-02, LN-01, PD-01)



Intelligent Vector Control Micro Drive C200

High Speed Frequency Output

- ▶ Supports both asynchronous and synchronous motors
- ▶ Built-in 5K steps PLC programming capacity
- ▶ Enhanced environment tolerance with special PCB coating (Printed Circuit Board) and ventilation channel
- ▶ Built-in pulse input terminal with encoder for closed-loop control



Power Range	0.4kW 0.5HP	0.75kW 1HP	1.5kW 2HP	2.2kW 3HP	3.7kW 5HP	4kW 5HP	5.5kW 7.5HP	7.5kW 10HP
C200	230V/1-phase							
	230V/3-phase							
	460V/3-phase							

Applications

Food packaging machines, conveyor equipment, textile machines, woodworking machines, fans and water pumps

General Field Oriented Control Drive C2000

For Traditional Drive System Controls



- ▶ Field oriented control with built-in PLC functions
- ▶ Built-in MODBUS
- ▶ Complies with global safety standards, including CE, UL and cUL
- ▶ Optional communication cards: ProfiBUS-DP, DeviceNet, MODBUS TCP, EtherNet-IP and CANopen

Standard models (IP/20/NEMA1)

Power range: 230V 0.75 ~ 90kW, 460V 0.75 ~ 355kW

Standard Servo Drive ASDA-B2



Power Range: 0.1 kW ~ 3 kW

- ▶ Input Voltage: AC 200V ~ 230V, 1-phase / 3-phase, or 3-phase
- ▶ Meets high precision positioning control requirements of general-purpose machine tools
 - Built-in Position, Speed and Torque modes (Speed and Torque modes can be controlled via internal parameters or external voltage)
 - Provides pulse input (up to 4 Mpps) and analog voltage commands
 - Three notch filters are provided to optimize the operation of the mechanical system automatically
 - Friction compensation and motor protection functions are available to reinforce the system
 - Power of main circuit and control circuit is separated
 - Maintenance is easy and very safe
 - Built-in regenerative resistor is featured as standard (400 W and above models). No need to purchase or wire up a separate regenerative resistor

Advanced Servo Drive ASDA-A2

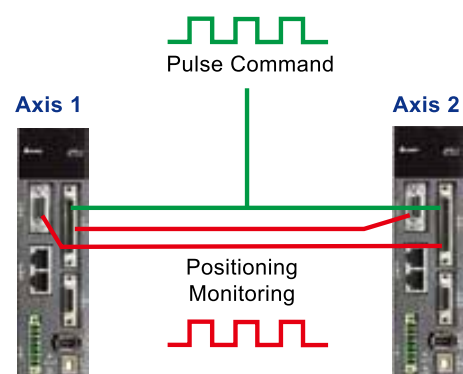
Implements 20-bit (1,280,000 p/rev) superior resolution encoder as a standard

Built-in Motion Control Functions

- ▶ Electronic Cam (E-Cam) function for mark tracing, positioning, synchronous control applications. 720 points max. for E-Cam outline
- ▶ High-speed Capture and Compare function for position latch and detection. Max. 800 records can be stored in the memory
- ▶ Built-in gantry control algorithm

High Precision, High Performance Servo Motors

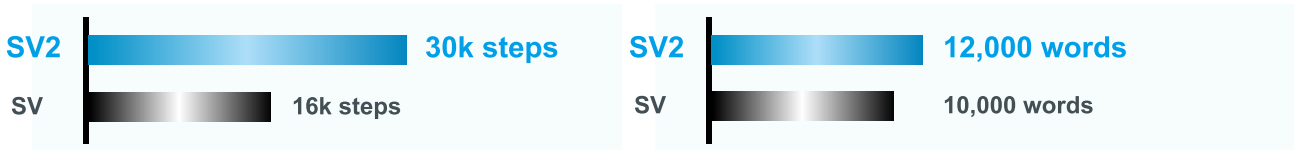
- ▶ Supports incremental type and absolute type encoders
- ▶ Incremental type encoder provides up to 1,280,000 p/rev resolution for high-precision positioning



High Performance Slim PLC DVP-SV2

Best Choice for Slim Type PLC

The new generation DVP-SV2 PLC is the high-end model of the Delta DVP-S series. It provides larger program capacities and data registers for more demanding and complex applications



Excellent Motion Control

- ▶ High-speed pulse output: 4 axes of 200kHz pulse output
- ▶ Supports max. 2 hardware 200kHz and 2 hardware 20kHz high speed counters
- ▶ Increases many motion control instructions to meet the applications that require high-speed and high-precision positioning control such as labeling machines, packaging machines and printing machines
- ▶ Offers linear/arc interpolation motion control
- ▶ Provides up to 16 external interrupt pointers

Complete Program Protection

- ▶ Auto backup function to prevent the loss of programs and data even when the battery runs out
- ▶ Second copy function provides a backup for extra insurance in the event that one set of programs and data are damaged
- ▶ Up to 4-level password protection protects your source programs and intellectual property

7-inch Widescreen HMI with Delta Professional Functions

DOP-B07PS415

- ▶ 7" 16: 9 widescreen, 65536 colors TFT
- ▶ Display Resolution: 800 x 480 pixels
- ▶ Supports SDHC card
- ▶ USB for high-speed data transfer (USB Client)
- ▶ Supports audio output interface (mp3, wav files)
- ▶ Supports Electronic Cam (E-Cam) download function (ASDA-A2)
- ▶ Supports G-Code download function (DVP10MC / DVP20PM)
- ▶ USB for direct connection to USB disk, printer, mouse and keypad (USB Host)



CANopen Motion Controller DVP-MC

High Speed, High Precision Motion Control Brings Out
the Maximum in Performance

- Up to 16 axes can be controlled through CANopen communication
- Supports electronic cam (2048 points) function for flying shear and rotary cut applications
- Supports DVP-S series left-side and right-side modules
 - ▶ Built-in 12 I/O points. Max. 480 I/O points
 - ▶ Program capacity: Ladder 16k steps / Motion 1Mbyte
 - ▶ Built-in Ethernet, RS-232 and RS-485 ports
 - ▶ Supports standard MODBUS ASCII/RTU protocol
 - ▶ Flexible industrial networking applications (Supports DeviceNet Master/Slave, CANopen Master/Slave and PROFIBUS-DP Slave modules)
 - ▶ Provides standard communication cables, terminal resistors, distribution boxes and more accessories for easy wiring and connection



▶ Economical

CNC MACHINE TOOL SOLUTIONS

Delta's CNC Solution features high-speed, high precision and superior surface finishing that enhances the speed, quality, stability of CNC machine tools. It is particularly suitable for high-speed tapping, engraving and milling processes, mold machine manufacturing, component processing and manufacturing, and many other industries.



APPLICATIONS

Engraving and Milling Machines / Gantry Milling Machines / Machining Centers / High-speed Tapping Machines / and many more machine tools.

DTK SERIES

- ▶ High resolution LCD display
- ▶ Length shortened to 60mm
- ▶ High speed sampling time 100 ms
- ▶ CE certified



STANDARD TEMPERATURE CONTROLLERS MODELS DTA SERIES

- ▶ PID / On-Off / manual input control modes
- ▶ Auto-tuning PID parameters
- ▶ Optional RS-485 communication interface (Modbus ASCII, RTU, baud rate: 2,400 ~ 38,400)



MODULAR & EXTENDABLE MODELS DTC SERIES

- ▶ PID / On-Off / manual input / programmable control modes
- ▶ 2 groups of outputs for auto-tuning 2 groups of PID parameters
- ▶ LED status display



MULTI-CHANNEL MODULAR MODELS DTE SERIES

- ▶ Thermocouple: K, J, T, E, N, R, S, B, L, U, TXK (Supports max. 8 sets of input)
- ▶ Platinum Resistance: Pt100, JPt100 (Supports max. 6 sets of input)
- ▶ RTD: Cu50, Ni120
- ▶ Analog Input: N/A
- ▶ Output: Relay, current 4-20mA, pulse voltage, analog voltage 0-10V
- ▶ Control Mode: ON-OFF, PID, manual, PID process control
- ▶ MODBUS communication: Built-in
- ▶ 2 sets of alarm outputs, 18 alarm modes
- ▶ Certification: CE, UL



INDUSTRIAL POWER SUPPLY

DVP-PS01/02/05

24W/48W/120W, DC24V
1-phase, White Plastic Case



DRP024V060W1AZ

60W, DC24V, 1-phase
Black Plastic Case



DRP024V120W1AA

120W, DC24V, 1-phase
Aluminum Case



DRP024V240W1AA

240W, DC24V, 1-phase
Aluminum Case



DELTA HYBRID ENERGY SAVING SYSTEM FOR INJECTION MOULDING MACHINE



System Features

(1) Superior Energy-Saving Results:

Lower energy consumption rate at the clamping and cooling stage while maintaining high productivity and high precision,

40% less energy consumption than variable displacement pump hydraulic systems.

60% less energy consumption than traditional fixed displacement pump hydraulic systems.

(2) Low Oil Temperature: Oil temperature reduced by 5~10°C; oil usage reduced by 50~60%;

50% less oil tank volume; lower cooler specifications required or even no cooler required.

(3) High Duplication Accuracy:

Precise flow and pressure control featuring duplication of products with less than 0.09% difference.

(4) Long Holding Pressure: Keeps mold halves securely closed for a longer period for thick plastic products formation.

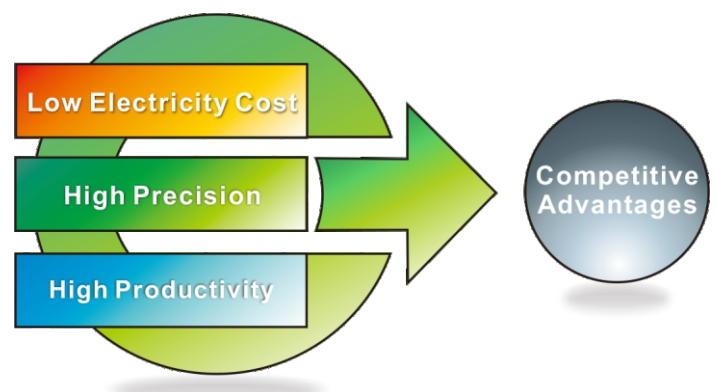
(5) Fast Frequency Response:

Delta HES with permanent magnetic servo motor (PMSM) speeds up frequency response to 50ms.

(6) Suitable for Harsh Environments: Resolver is resistant to vibration, oil and dust.

(7) Old Machine Replenishment: Supports analog command 0~10V and 3-point adjustment for analog inputs. The computer in the injection molding machine does not need to be replaced.

(8) Flow Convergence: Saves cost on tubes, large flow capacity, enhances energy-savings.



DELTA ROUTER ETHERNET AND 3G/4G

DIACloud is the cloud platform developed by Delta that supports all DX Series cloud routers.

It helps achieve remote monitoring and control through the Internet without the requirement for a static IP or setting up a private VPN server.

Available for web browsers, iOS, and Android platforms, DIACloud simplifies the process of managing dynamic device infrastructures and makes it much easier to deploy devices and applications.



ANNUAL MAINTENANCE CONTRACT

Services Offered :

- ▶ Routine check for Healthiness of the installed PLC hardware and HMI software.
- ▶ Study the history of alarms & events to offer you changes in Software and Hardware to obtain better system stability.
- ▶ Checking Healthiness of existing SCADA machine including virus check.
- ▶ Checking Panel Wiring, Power Supplies, Earth Pits.
- ▶ Checking Activation, updates of Software Licenses & firmware which are within warranty.
- ▶ Taking backup of Data, Software & logic.
- ▶ Minor Rectifications in the software can be carried out as and when required.

Annual Preventive maintenance and Services Contract is available on an as-needed, scheduled, or full-time basis.

We help you to meet your specific needs throughout the lifecycle of your maintenance strategy.



STUDENTS TRAINING

The HR Function at Gururaj Engineers has come up with customized training programs for diploma and degree engineering students. This covers the project guidance and training for the final year projects of the engineering students. We also cater rigorous, full time, on-site training for fresher's willing to have a glimpse of professional life.

WE COVER THE FOLLOWING MODULES

- ▶ Project Guidance
- ▶ Component identification
- ▶ PCB Assembly – Soldering-De Soldering
- ▶ Electrical Drawings
- ▶ Control Panel Manufacturing
- ▶ PLC Programming
- ▶ SCADA
- ▶ Using Testing and Measuring Instruments - Instrumentation
- ▶ Techno-commercial Guidance
- ▶ Quality Management Systems
- ▶ Purchase and Marketing Functions
- ▶ Planning and Order Execution

WE HAVE AN MOU FOR TRAINING AND PLACEMENT CELLS OF

- ▶ Parul Institute of Technology
- ▶ SVIT, Vasad
- ▶ Sigma Institute of Technology
- ▶ Babaria Institute of Technology
- ▶ Polytechnic, MSU

WE ALSO GIVE TRAINING TO COMMERCE AND MANAGEMENT STUDENTS



STUDENTS
TRAINING





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